

Product datasheet for **RG204066**

FOXA2 (NM_021784) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | FOXA2 (NM_021784) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FOXA2 |
| Synonyms: | HNF-3-beta; HNF3B; TCF3B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG204066 representing NM_021784
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGAGCGGTGAAGATGGAAGGGCACGAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGG
 GCTACTCCTCCGTGAGCAACATGAACGCCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTC
 GGCGGCCGCCATGGGAGCGGCTCGGGCAACATGAGCGCGGGCTCCATGAACATGTCGTCGTACGTGGG
 GCTGGCATGAGCCGTCCTGGCGGGATGTCCCCGGCGGGCGCCATGGCGGCATGGGCGGCTCGG
 CCGGGGCGCGGCGTGGCGGGCATGGGCGCCTTGTAGTCCCAGCCTGAGCCCGCTCGGGGGCAGGC
 GGCCGGGGCCATGGGCGGCTGGCCCCACGCCAACATGAACCTCATGAGCCCCATGTACGGGCAGGCG
 GGCTGAGCCGCGCCCGACCCCAAGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGT
 ACATCTCGCTCATACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTACCA
 GTGGATCATGGACCTTCCCCCTTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCCGCCACTCG
 CTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGGAAGGGCTCCTTCTGGA
 CCCTGCACCCGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGT
 CGAGAAGCAGCTGGCGTGAAGGAGGCCGAGGCGCCGCCGCGCAGCGGCAAGAAGGCGGCCCGCGGAGCC
 CAGGCCTCACAGGCTCAACTCGGGGAGGCCGCCGGCCCGCTCCGAGACTCCGGCGGGCACCGAGTTCGC
 CTCCTGAGCGCCTCCCCGTGCCAGGAGCACAAAGCGAGGGGGCTGGGAGAGCTGAAGGGGACCGCGGC
 TGCGGCGCTGAGCCCCCAGAGCCGGCGCCCTCTCCGGGCGAGCAGCAGCAGGCCCGCGGCCACCTGCTG
 GGCCCGCCCCACCACCCGGGCTGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACC
 ACCCGTTCTCCATCAACAACCTCATGTCTCGGAGCAGCAGCACCACCACAGCCACCACCACCACCACC
 CCACAAAATGGACCTCAAGGCTACGAACAGGTATGCACTACCCCGGCTACGGTTCCCCCATGCCTGGC
 AGCTTGGCCATGGGCCCGGTACGAACAAAACGGGCTGGACGCCTCGCCCTGGCCGAGATACCTCCT
 ACTACCAGGGGTGACTCCCGCCATTATGAACTCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204066 representing NM_021784
 Red=Cloning site Green=Tags(s)

MLGAVKMEGHEPSDWSSYYAEPEGYSSVSNMAGLGMNGMNTYMSMSAAAMGSGSGNMSAGSMNMSYVVG
 AGMSPSLAGMSPGAGAMAGMGSAGAAGVAGMGPPLSPSLSPGGQAAGAMGGLAPYANMNSMSPMYGQA
 GLSRARDPKTYRRSYTHAKPPYSYISLITMAIQSPNKMLTLEIYQWIMDLFPFYRQNRWQNSIRHS
 LSFNDCFLKVPRSPDKPGKGSFWTLHPDSGNMFENGCYLRQKRFKCEKQLALKEAAGAAGSGKAAAGA
 QASQAQLGEAAGPASETAPAGTESPHSSASPCQEHKRGGLGELKGTAAALSPPEPAPSPGQQQAAAHL
 GPPHPGLPPEAHLKPEHHYAFNHPFSINNLMSSEQHHHSHHHHQPDKMDLKAYEQVMHYPGYGSMPMG
 SLAMGPVTNKTGLDASPLAADTSYYQGVYSRPIMNSS

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2015_f09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_021784

ORF Size: 1371 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

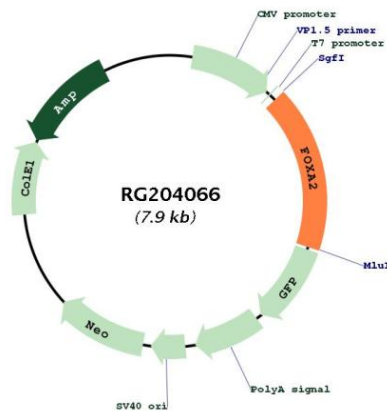
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_021784.3](#), [NP_068556.1](#)

RefSeq Size: 2428 bp
RefSeq ORF: 1392 bp
Locus ID: 3170
UniProt ID: [Q9Y261](#)
Cytogenetics: 20p11.21
Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Protein Pathways: Maturity onset diabetes of the young
Gene Summary: This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

Product images:


Circular map for RG204066